



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

P#10

Applicant : Nishino, N., et al.

Art Unit : 1646

Serial No. : 09/945,237

Examiner : Unknown

Filed : August 31, 2001

Title : NOVEL CYCLIC TETRAPEPTIDE DERIVATIVES AND PHARMACEUTICAL
USES THEREOF

Commissioner for Patents
P.O. Box 2327
Arlington, VA 22202

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed for filing in the above-referenced patent application is a Form PTO-1449, being submitted prior to the first Office Action on the merits. Applicants respectfully request consideration of the remarks and references set forth herein.

The following documents are enclosed herewith:

- copy of Form PTO-1449
- Postcard
- copies of cited references

RECEIVED

JAN 24 2003

TECH CENTER 1600/2900

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202.

Date of Deposit

1/17/03

Signature

Jeanne Amour Rice
Jeanne Amour Rice

Typed or Printed Name of Person Signing Certificate

Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
13863-002001Application No.
09/945,237**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)

(37 CFR 1.98(b))

Applicant
Nishino, N., et al.Filing Date
August 31, 2001Group Art Unit
1646**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AD							
	AE							
	AF							
	AG							
	AH							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AI	Nishino et al., "Cyclic Tetrapeptide Hydroxamic Acids Related to Trapoxin B Inhibit Histone Deacetylase", <u>Peptides</u> , pp. 832-833, 1998
	AJ	Tomizaki, et al., "Histone Deacetylase Inhibitors Based on Trapoxin B", <u>Peptide Science</u> , Vol. 35, pp. 181-184, 1998
	AK	Nishino, et al., "Synthesis of Cyclic Tetrapeptides Containing Non-natural Imino Acids", <u>Peptide Science</u> , Vol. 35, pp. 189-192, 1998
	AL	Tsukamoto, et al., "Synthesis and Activity of Cyl-1 Analogs having Hydroxamic Acid at Side Chain", <u>Peptide Science</u> , pp. 185-188, 1998
	AM	Komatsu, et al., "Histone Deacetylase Inhibitors Up-regulate the Expression of Cell Surface MHC Class-I Molecules in B16/BL6 Cells", <u>Journal of Antibiotics</u> , Vol. 51, No. 1, pp. 89-91, January, 1998
	AN	Yoshida, et al., "Histone deacetylase as a new target for cancer chemotherapy", <u>Cancer Chemotherapy and Pharmacology</u> Vol. 48, No. Suppl. 1, pp. S20-S26, July 1, 2001
	AO	Furuma, et al., "Potent histone deacetylase inhibitors built from trichostatin A and cyclic tetrapeptide antibiotics including trapoxin", <u>Proceedings of the National Academy of Sciences</u> , Vol. 98, No. 1, pp. 87-92, January 2, 2001

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



P.B.5818 - Patentlaan 2-
2280 HV Rijswijk (ZH)
☎ +31 70 340 2040
TX 31651 epo nl
FAX +31 70 340 3016

Europäisches
Patentamt

Zweigstelle
in Den Haag
Recherchen-
abteilung

Eur pean
Patent Office

Branch at
The Hague
Search
division

Office européen
des brevets

Département à
La Haye
Division de la
recherche

Ziebig, Marlene, Dr. Dipl.-Chem.
Patentanwälte
Gulde Hengelhaupt Ziebig & Schneider
Schützenstrasse 15-17
10117 Berlin
ALLEMAGNE

Eingegangen	
Gulde Hengelhaupt Ziebig & Schneider	
03. DEZ. 2002	→ B7c B7d
WV	Datum/Date 09-12-02
Frist	

Zeichen/Ref./Réf. P120501EP-Zie	Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°. 00905381.0-2404-JP0001141
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire Japan Energy Corporation	

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
X	NISHINO N ET AL: "CYCLIC TETRAPEPTIDE HYDROXAMIC ACIDS RELATED TO TRAPOXIN B INHIBIT HISTONE DEACETYLASE" PEPTIDES, ELMSFORD, US, 1998, pages 832-833, XP000985719 ISSN: 0196-9781 * the whole document *	1-9	C07K5/12 A61K38/12
X	KIN-YA TOMIZAKI ET AL: "HISTONE DEACETYLASE INHIBITORS BASED ON TRAPOXIN B" PEPTIDE SCIENCE, PROTEIN RESEARCH FOUNDATION, MINOO,, JP, vol. 35, 1998, pages 181-184, XP000985575 ISSN: 1344-7661 * the whole document *	1-9	
X	HIDEKAZU NISHINO ET AL: "SYNTHESIS OF CYCLIC TETRAPEPTIDES CONTAINING NON-NATURAL IMINO ACIDS" PEPTIDE SCIENCE, PROTEIN RESEARCH FOUNDATION, MINOO,, JP, vol. 35, 1998, pages 189-192, XP000985577 ISSN: 1344-7661 * the whole document *	1-9	TECHNICAL FIELDS SEARCHED (Int.CI.7) C07K A61K
X	MAKIKO TSUKAMOTO ET AL: "SYNTHESIS AND ACTIVITY OF CYL-1 ANALOGS HAVING HYDROXAMIC ACID AT SIDE CHAIN" PEPTIDE SCIENCE, PROTEIN RESEARCH FOUNDATION, MINOO,, JP, 1998, pages 185-188, XP000985651 ISSN: 1344-7661 * the whole document *	1-9	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search MUNICH		Date of completion of the search 20 November 2002	Examiner López García, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

7
EPO FORM 1503 03.82 (P04C04)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	KOMATSU Y ET AL: "HISTONE DEACETYLASE INHIBITORS UP-REGULATE THE EXPRESSION OF CELL SURFACE MHC CLASS-I MOLECULES IN B16/BL6 CELLS" JOURNAL OF ANTIBIOTICS, JAPAN ANTIBIOTICS RESEARCH ASSOCIATION, TOKYO, JP, vol. 51, no. 1, January 1998 (1998-01), pages 89-91, XP001055762 ISSN: 0021-8820 * the whole document *	1-9	
⑤			
T	YOSHIDA M ET AL: "Histone deacetylase as a new target for cancer chemotherapy" CANCER CHEMOTHERAPY AND PHARMACOLOGY, SPRINGER VERLAG, BERLIN, DE, vol. 48, no. Suppl 1, 1 July 2001 (2001-07-01), pages S20-S26, XP002188621 ISSN: 0344-5704 * the whole document *	1-9	
⑥			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
T	FURUMAI RYOHEI ET AL: "Potent histone deacetylase inhibitors built from trichostatin A and cyclic tetrapeptide antibiotics including trapoxin." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 98, no. 1, 2 January 2001 (2001-01-02), pages 87-92, XP002221718 January 2, 2001 ISSN: 0027-8424 * the whole document *	1-9	
⑦			
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search MUNICH		Date of completion of the search 20 November 2002	Examiner López García, F
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

7
EPO FORM 1503 03.02 (P04C04)



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☒ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: